

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
1 September 2005 (01.09.2005)

PCT

(10) International Publication Number
WO 2005/081263 A3

(51) International Patent Classification:
G21G 1/00 (2006.01) *G21K 5/08* (2006.01)

(21) International Application Number:
PCT/BE2005/000025

(22) International Filing Date:
18 February 2005 (18.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
04447049.0 20 February 2004 (20.02.2004) EP

(71) Applicant (for all designated States except US): **ION BEAM APPLICATIONS SA** [BE/BE]; Chemin du Cyclotron 3, B-1348 LOUVAIN-LA-NEUVE (BE).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **AMELIA, Jean-Claude** [BE/BE]; rue Albert Ier, 43, B-6560 ERQUELINNES (BE). **GHYOOT, Michel** [BE/BE]; Avenue des Arts, 19, B-1348 LOUVAIN-LA-NEUVE (BE).

(74) Agents: **VAN MALDEREN, Joëlle** et al.; pronovem - Office Van Malderen, Avenue Josse Goffin 158, B-1082 Bruxelles (BE).

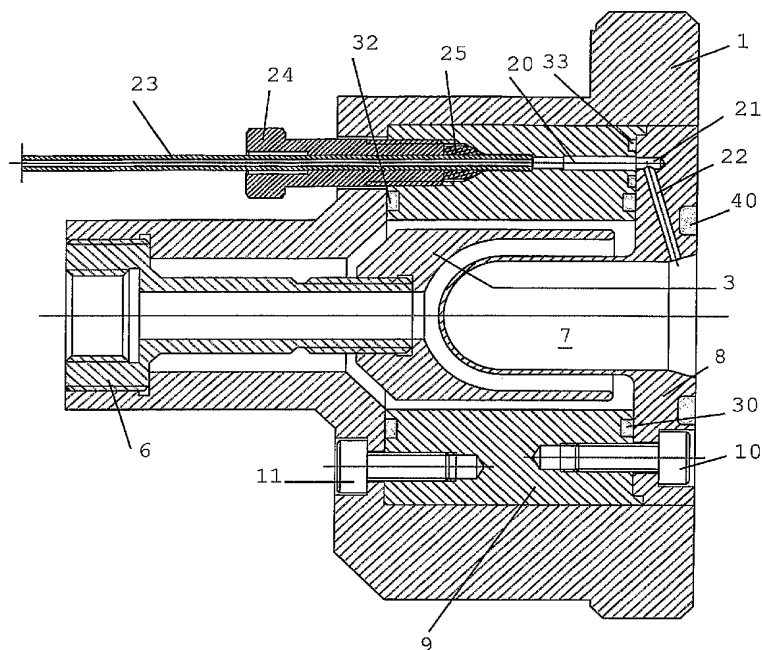
(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:
— with international search report

[Continued on next page]

(54) Title: TARGET DEVICE FOR PRODUCING A RADIOISOTOPE



(57) Abstract: The present invention is related to an irradiation cell for producing a radioisotope of interest through the irradiation of a target material by a particle beam, comprising a metallic insert (2) forming a cavity (7) designed to house the target material and to be closed by an irradiation window, characterized in that said metallic insert (2) comprises at least two separate metallic parts (8,9) of different materials, being composed of at least a first part (8) comprising said cavity (7).

WO 2005/081263 A3



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(88) Date of publication of the international search report:

13 July 2006